OGorek, Megan (DEQ)

From:

OGorek, Megan (DEQ)

Sent:

Tuesday, March 08, 2016 9:00 AM

To:

'Timothy Castillo'

Subject:

Application Complete- VPDES Permit No. VA0086584, Glenmore WRRF, Albemarle Co.

Dear Mr. Castillo:

Your application has been reviewed and appears to be complete. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next few months.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to contact us.

Megan K. O'Gorek Water Permit Writer DEQ - Valley Regional Office 4411 Early Road, Harrisonburg, VA Ph: 540-574-7845 Fax: (540)574-7878 megan.ogorek@deq.virginia.gov

Web: www.deq.virginia.gov

Mail: P.O. Box 3000, Harrisonburg, VA 22801

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT:

Application Errata for VPDES Permit No. VA0086584, Glenmore WRRF, Albemarle

County

TO:

PP File

FROM:

Megan O'Gorek

DATE:

March 1, 2016

The following deficiencies were noted in the subject permit reissuance application:

Form 2A

Item A.2. Item was left blank. It is known that the Applicant name is Rivanna Water & Sewer Authority. It is also known that Rivanna Water & Sewer Authority is also the owner of the treatment works.

Item A.4. Type of Collection System should be separate and Ownership should be municipal.

Item.A.5.b. Box was not checked. Should be checked "no" that the treatment works discharge to a receiving water that is either in Indian Country or that is upstream (and eventually flows through) Indian Country.

Item A.11.a Primary and Advanced treatment should have been checked in addition to Secondary.

The deficiencies noted are insignificant and will not affect the preparation of a legally and technically defensible draft permit.

Reviewer Concurrence: DMJ

3/4/16



695 MOORES CREEK LANE CHARLOTTESVILLE, VA 22902-9016 TEL: 434.977.2970 FAX: 434.293.8858

DEQ VALLEY

JAN 2 9 2016

Date:

WWW.RIVANNA.ORG

January 27, 2016

Ms. Megan K. O'Gorek Water Permit Writer DEQ Valley Regional Office PO Box 3000 Harrisonburg, VA 22801

RE:

Glenmore WRRF VA0086584

VPDES Permit Reissuance Application

Dear Ms. O'Gorek:

Enclosed, please find the completed Permit Reissuance Application package for the Glenmore Water Resource Recovery Facility VA0086584. This package includes:

- 1. EPA Form 3510-2A (Application Form 2A) with mapping, flow diagram and contact laboratory results
- 2. VPDES Sewage Sludge Permit Application Form with sludge acceptance letter
- 3. VPDES Application Addendum
- 4. Permit Billing Information Form
- 5. Public Notice Billing Information Form
- 6. Stormwater No Exposure Certification Form

Please do not hesitate to contact me should you need any further information.

Sincerely.

Timothy E. Castillo Wastewater Manager

VPDES/VPA Permit Billing Information Form for Annual Maintenance Fee

Facility Name:	Glenmore WRRF			
Permit Number:	VA 0086584			
Owner Name:	Rivanna Water and Sewer Authority			
Owner Address:	695 Moores Creek Lane			
	Charlottesville, VA 22902			
Billing Contact Name:	Timothy E. Castillo			
Title:	Wastewater Manager			
Phone Number:	434-977-2970 ext.112			
E-Mail Address:	tcastillo@rivanna.org			

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environtice billed to the Agent/Department show for two consecutive weeks in The Daily Pro 290.C.2.	ronmental Quality to have the cost of publishing a public wn below. The public notice will be published once a week gress in accordance with 9 VAC 25-31-
Agent/Department to be billed:	Wastewater Department
Owner:	Rivanna Water and Sewer Authority
Agent/Department Address:	695 Moores Creek Lane
	Charlottesville, VA 22902
Agent's Telephone No.:	434-977-2970 ext. 112
Printed Name:	Timothy E. Castillo
Authorizing Agent – Signature:	T COS
Date:	1/27/16
Facility Name: Glenmore WRRF	

VPDES Permit No. VA VA0086584

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: Rivanna Water and Sewer Authority
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? YES NO Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point.
3.	What is the tax map parcel number for the land where this facility is located? 093A500000000B0
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? 0
5.	ALL FACILITIES: What is the design average flow of this facility? 0.381 MGD MGD Industrial facilities: What is the maximum 30-day avg. production level (include units)?
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES V NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels: Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6.	Nature of operations generating wastewater: Domestic sewer service
	100 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: □ 0 □ 1-49 ☑ 50 or more
	% of flow from non-domestic connections/sources
7.	Mode of discharge: ✓ Continuous ☐ Intermittent ☐ Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: ✓ Permanent stream, never dry ☐ Intermittent stream, usually flowing, sometimes dry ☐ Ephemeral stream, wet-weather flow, often dry ☐ Effluent-dependent stream, usually or always dry ☐ Lake or pond at or below the discharge point ☐ Other:
9.	Consent to receive electronic mail The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check <i>only one</i> of the following to consent to or decline receipt of electronic mail from DEQ as follows:
	Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Please provide email: tcastillo@rivanna.org
	Applicant or permittee declines to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity.

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99 OMB Number 2040-0086

FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)



FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99
OMB Number 2040-0086

Gieni	more vvater Resour	ce Recovery Fa	CIIITY VAUU86584					
ВА	SIC APPLICA	TION INFO	RMATION					
PAR	T A. BASIC APPL	ICATION INFO	RMATION FOR ALL	APPLICAN	TS:		· · · · · · · · · · · · · · · · · · ·	•
All tr	eatment works must	complete quest	ions A.1 through A.8 of	this Basic A	pplication Informa	ation packet		
A.1 .	Facility Information	ı .			_		-	-
	Facility name	Glenmore Wat	er Resource Recovery	Facility				
	Mailing Address	695 Moores Cr Charlottesville,		· ·				
	Contact person	Timothy E. Car	stillo			···-··		
	Title	Wastewater M	anager					
	Telephone number	(434) 977-297	0					
	Facility Address (not P.O. Box)	3395 Carroll C Charlottesville,						<u> </u>
A.2.		ion If the applica	nt is different from the abo	ove provide	he following:			
A-4.	Applicant name	on. If the applica	in is unciche nom the upo	ove, provide	ine rollowing.			
	Mailing Address							
	Contact person				.			
	Title							
	Telephone number							
	Is the applicant the	owner or operat	or (or both) of the treatr	ment works?	,			
	Indicate whether cor	respondence rega	arding this permit should b	e directed to	the facility or the a	pplicant.		
	facility		applicant					
A.3.	Existing Environme works (include state		rovide the permit number	of any existir	g environmental pe	ermits that ha	ave been issued to the trea	tment
	NPDES VA0086	584			PSD			
	uic			- -	Other			
	RCRA			-	Other			
A.4.	Collection System each entity and, if kr etc.).	Information. Pronown, provide info	ovide information on munic rmation on the type of col	cipalities and lection syste	areas served by the m (combined vs. se	e facility. Preparate) and	ovide the name and popula its ownership (municipal, p	ation of rivate,
	Name		Population Served	Туре	of Collection Sys	tem	Ownership	
	Glenmore	····	1820	<u>Dom</u>	estic/Gravity		Albermarie County Se	ervice_
	Total po	pulation served	1820					

FACILITY NAME AND PERMIT NUMBER: Ilenmore Water Resource Recovery Facility VA0086584								rm Approved 1. IB Number 20	
		ian Country.					,		
	a	Is the treatment works loca	ated in Indian Co	untn/2					
	٠.	Yes	√ No	uriu y :					
	b.	Does the treatment works		ceiving water that is ei	ther in Indian Co	nuintry or that is un	stream from (a	nd eventually	flows
	-	through) Indian Country?	a.coa.go to a 10	corring trater triat to cr		sandy or that is ap	stream nom (a	na eventually	110113
		Yes	No						
	ave	w. Indicate the design flow rage daily flow rate and ma iod with the 12th month of "	ximum daily flow	rate for each of the la	st three years. E	Each year's data m	nust be based of	le). Also pro on a 12-monti	vide the h time
	a.	Design flow rate	0.381 mgd						
				Two Years Ago	Last Ye	<u>ar</u>	This Year		
	b.	Annual average daily flow	rate _	0.12	20	0.105		0.102	mgd
	C.	Maximum daily flow rate	_	0.39	93	0.589		0.380	mgd
. f.	con	Ilection System. Indicate to stribution (by miles) of each. Separate sanitary se Combined storm and	wer	ection system(s) usea	by the treatmen	тріапт. Спеск аіі	tnat apply. Also	o estimate th	
	_	Combined storm and	samary sewer						70
		If yes, list how many of each i. Discharges of treated ii. Discharges of untreated iii. Combined sewer over iii.	effluent ed or partially trea flow points	ated effluent	oints the treatme	ent works uses:	<u>1</u> 		
		v. Other	cy overflows (prio	r to the headworks)					· · · · ·
	b.	Does the treatment works impoundments that do not If yes, provide the following Location:	have outlets for o	discharge to waters of	the U.S.?		Yes	✓	No
		Annual average daily volum		-				mgd	
		-	continuous or	•	•			_	
	C.	Does the treatment works	land-apply treate	d wastewater?			Yes		No
		If yes, provide the following	g for each land a	pplication site:					
		Location:	 		. .				
		Number of acres:							
		Annual average daily volum	me applied to site	e:		Mgd			
		Is land application	continuo	us or in	termittent?				
	d.	Does the treatment works treatment works?	discharge or tran	sport treated or untrea	ted wastewater	to another	Yes	,	No

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99 OMB Number 2040-0086

If transport is by a party of	ner than the applicant.	provide:			
Transporter name:					
Mailing Address:					
Contact person:					
Title:					
Telephone number:					<u>.</u>
withing Address:			·		
Mailing Address:			·		
Contact person:					
			.		
Title:					
Title: Telephone number:					
1	ES permit number of th	e treatment works	that receives this discha	ge	
Telephone number:				ge	NA mg
Telephone number:	flow rate from the treatr	ment works into th	e receiving facility. a manner not included in		
Telephone number: If known, provide the NPD Provide the average daily Does the treatment works	flow rate from the treatr discharge or dispose of (e.g., underground per	ment works into th fits wastewater in colation, well injec	e receiving facility. a manner not included in		NA mg

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99
OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	De	scription of Outfall.		
	a.	Outfall number	001	
	b.	Location		
			(City or town, if applicable) Albermarle	(Zip Code) Virginia
			(County) N37 58' 44"	(State)
			(Latitude)	W78 22' 58" (Longitude)
	C.	Distance from shore (if applicable)	N/A ft.
	d.	Depth below surface	-	N/A ft.
			_	
	e.	Average daily flow rat	<u> </u>	0.102 mgd
	f.	Does this outfall have	either an intermittent or a	
		periodic discharge?		Yes ✔ No (go to A.9.g.)
		If yes, provide the follo	owing information:	
		Number of times per y	rear discharge occurs:	
		Average duration of e	ach discharge:	
		Average flow per discharge:		mgd
	Months in which discharge occurs:		arge occurs:	
			_	
	g.	Is outfall equipped wit	h a diffuser?	Yes No
^	Da	parintian of Bassiulas	- Water-	
v.	De:	scription of Receiving	y waters.	
	a.	Name of receiving wa	ter Rivanna River	
		Name of water-back //	(Image)	(A.C. III.)
	b.	Name of watershed (if	rknown) <u>Jam</u>	es (Middle)
		United States Soil Con	nservation Service 14-digit watershed	d code (if known):
	_	Name of Otata Manage	40. 6 . 45.	
	C.	Name of State Manag	ement/River Basin (if known):	
		United States Geologi	cal Survey 8-digit hydrologic catalogi	ing unit code (if known):
		0.00		
	α.	acute	eiving stream (if applicable): cfs	ahrania afa
				chronic cfs plicable): 25 mg/l of CaCO ₃
	_	Total bardness of roos		

FACILITY NAME AND PERMIT NUMBER: Glenmore Water Resource Recovery Fa	cility VA008658			Form Approved 1/14/99 OMB Number 2040-0086			
A.11. Description of Treatment.							
a. What levels of treatment are provi Primary Advanced	√ _ s	nat apply. econdary ther. Describe:					
b. Indicate the following removal rate	es (as applicable)	:					
Design BOD ₅ removal <u>or</u> Design 0	BOD ₅ removal		85	%			
Design SS removal			85	%			
Design P removal				%			
Design N removal				%			
Other	_			%			
c. What type of disinfection is used f <u>Ultra-violet disinfection</u> If disinfection is by chlorination, is	-		fection varies by seaso	on, please describ	e. No		
d. Does the treatment plant have pos		sed for this outlant:		Yes _	No		
A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: 001							
PARAMETER	MAXIMUM	DAILY VALUE	,	AVERAGE DAILY	VALUE		
	Value	Units	Value	Units	Number of Samples		
pH (Minimum)	6.5	s.u.					
	7.0						

PARAMETER	MAXIMU	M DAILY VALUE	AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.5	s.u.			
pH (Maximum)	7.0	s.u.			
Flow Rate	0.177	MGD	0.113	MGD	31
Temperature (Winter)	17.6	С	16.0	С	31
Temperature (Summer)	22.2	С	20.9	С	31

* For pH please report a minimum and a maximum daily value

POLLUTANT		1117 - 11111	JM DAILY HARGE	AVERAGE DAILY DISCHARGE		ANALYTICAL METHOD	ML / MDL	
	Conc.	Units	Conc.	Units	Number of Samples			
CONVENTIONAL AND N	IONCONVI	ENTIONAL CO	MPOUNDS.	<u> </u>				
BIOCHEMICAL OXYGEN	BOD-5		_	ļ			_	
DEMAND (Report one) CBOD-5		4	mg/l	1.9	mg/l	50	SM 5210 B-20	1.0 mg/l
FECAL COLIFORM		130	cfu/100ml	9	cfu/100ml	50	EPA 1903	1 CFU/100ml
TOTAL SUSPENDED SOL	10	mg/l	3	mg/l	50	SM 2450 D-19	1.0 mg/l	

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PART B.	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

		EQUAL TO 0.1 MGD (100,000 gallons per day).							
All a	plica	nts with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).							
B.1.	Infl	ow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.							
		approx. 10,000 gpd							
	Brie	fly explain any steps underway or planned to minimize inflow and infiltration.							
The Albermarle County Service Authority has a plan to provide necessary maintenance on sewer collection syste									
B.2.	This	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)							
	a.	The area surrounding the treatment plant, including all unit processes.							
		The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.							
	C.	Each well where wastewater from the treatment plant is injected underground.							
		Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.							
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.							
		If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.							
B.3.	back chlor	ess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all up power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., ination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily rates between treatment units. Include a brief narrative description of the diagram.							
B.4.	Ope	ration/Maintenance Performed by Contractor(s).							
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?YesNo								
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).								
	Nam	e:							
	Maili	ing Address:							
	Tele	phone Number:							
	Res	ponsibilities of Contractor:							
B.5.	unco treat	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or ompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the ment works has several different implementation schedules or is planning several improvements, submit separate responses to question for each. (If none, go to question B.6.)							
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.							
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.							
		YesNo							

FACILITY NAME AND PERMIT NUMBER: Glenmore Water Resource Recovery Facility VA0086584

Form	Approved	d 1/14/99
OMB	Number	2040-0086

С	If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).											
d.		provements plan	ned independent	ly of local, State,			mentation steps listed planned or actual com					
			Schedule	Ad	tual Completion							
	Implementation Sta	ige	MM / DD / `	YYYY MI	M / DD / YYYY							
	- Begin construction	n	//_									
	- End construction		//		_//							
	– Begin discharge		//_		_//							
	- Attain operationa	l level			_//							
е.	Have appropriate p Describe briefly:		es concerning oth				Yes	_No				
test ove met star poll	ting required by the rflows in this section thods. In addition, t	permitting autho n. All information his data must co analytes not addr	rity for each outfain reported must to mply with QA/QC essed by 40 CFF	all through which be based on data C requirements o R Part 136. At a	effluent is discher a collected through f 40 CFR Part 13	<u>arged.</u> Do not gh analysis cor 36 and other a	eters. Provide the ind include information on the include information on the include using 40 CFR ppropriate QA/QC requist be based on at	n combined sewer Part 136 uirements for				
PC	DLLUTANT		M DAILY	AVERAG	E DAILY DISCH	IARGE						
		Conc.	IARGE Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL				
CONVEN	TIONAL AND NON	CONVENTIONA	L COMPOUNDS	<u>.</u>	<u> </u>		<u></u>	·				
AMMONIA	(as N)	1.44	mg/l	0.42	mg/l	35	SM 4500 D-1997	0.05 mg/l				
CHLORIN RESIDUA	E (TOTAL L, TRC)	NA		NA								
DISSOLV	ED OXYGEN	10.4	mg/l	8.4	mg/l	365	SM 4500 G-2001	NA				
TOTAL K. NITROGE	N (TKN)	1.1	mg/l	0.2	mg/l	47	SM4500-C-1997	0.08 mg/l				
NITRATE NITROGE	PLUS NITRITE N	2.54	mg/l	1.63	mg/l	3	Lachat 10-107-04	0.20 mg/l				
OIL and G	REASE	<5	mg/l	<5	mg/l	3	EPA 1664B	5.0 mg/l				
PHOSPH	ORUS (Total)	2.84	mg/l	2.32	mg/l	3	Lachat 10-115-01	0.20 mg/l				
TOTAL DI SOLIDS (ISSOLVED TDS)	266	mg/l	240.3	mg/l	3	SM 2540C, 2011	1.0 mg/l				
OTHER												

END OF PART B.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

			Form Approved 1/14/99
FACILITY NAME AND PI			OMB Number 2040-0086
Glenmore Water Resou	rce Recovery Facility VA	0086584	
BASIC APPLICA	TION INFORMAT	ON	
PART C. CERTIFICAT	TION		(5) to the numerous of this cortification. All
applicants must complete	lete the Certification Section. all applicable sections of Foundations of Foundations. By signing this cape the facility for which this applicable.	ertification statement, applica-	ermine who is an officer for the purposes of this certification. All pplication Overview. Indicate below which parts of Form 2A you ants confirm that they have reviewed Form 2A and have completed
	Form 2A you have comple		
	ation Information packet	Supplemental Application	Information packet:
_		Part D (Expande	d Effluent Testing Data)
			esting: Biomonitoring Data)
		Part F (Industrial	User Discharges and RCRA/CERCLA Wastes)
		Part G (Combine	d Sewer Systems)
ALL APPLICANTS MUS	ST COMPLETE THE FOLLO	WING CERTIFICATION.	
designed to assure that	qualified personnel property in or those persons directly read to complete. If am aware that	gather and evaluate the into	d under my direction or supervision in accordance with a system mation submitted. Based on my inquiry of the person or persons formation, the information is, to the best of my knowledge and as for submitting false information, including the possibility of fine
Name and official title	Timothy E. Castillo		
Signature			
Telephone number	(434) 977-2970		
Date signed	01-27-	16	
Upon request of the per works or identify approp	mitting authority, you must s priate permitting requirement	ubmit any other information a s.	necessary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Glenmore Water Resource Recovery Facility VA0086584	OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number:	(Complete once for each outfall discharging effluent to waters of the Unit							of the Unite	d States.)		
POLLUTANT	1	MAXIMU	JM DAIL HARGE	Y	A\	VERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE), (YANIDE,	PHENO	LS, AND	HARDNE	SS.	<u> </u>	l		Samples	<u> </u>	<u> </u>
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM				,							
CHROMIUM											
COPPER											
LEAD											
MERCURY										-	
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO ₃)											
Use this space (or a separate sheet) to	provide in	formatio	n on other	metals re	equested b	by the per	mit writer				
		<u></u>									

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Outfall number:	_ (Comp	lete ond	e for eac	ch outfall	discharg	jing efflu	ent to w	aters of	the United S	States.)	
POLLUTANT		MAXIML DISCH	JM DAIL' HARGE	Y	A۱	/ERAGE	DAILY	DISCHA	ARGE	·	
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.					,						
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE								!			
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											-
1,1,2,2-TETRACHLORO-ETHANE											
TETRACHLORO-ETHYLENE											
TOLUENE											

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99 OMB Number 2040-0086

Outfall number:	(Complete once for each outfall of				discharging effluent to waters of the United States.)						
POLLUTANT	1	MAXIMU	JM DAIL	Y	AVERAGE DAILY DISCHARGE						,
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE											
Use this space (or a separate sheet) to	provide in	formatio	n on other	volatile o	rganic cor	npounds	requeste	d by the p	permit writer.		
<u></u>											
ACID-EXTRACTABLE COMPOUNDS			<u>. </u>	<u>i</u>		<u> </u>		l			
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL											
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL											
2,4,6-TRICHLOROPHENOL									-		
Use this space (or a separate sheet) to	provide ir	iformatio	n on other	acid-extr	actable co	mpounds	s requeste	ed by the	permit writer.	,	
BASE-NEUTRAL COMPOUNDS.	l	<u>! </u>	<u> </u>	L	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>		
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE											
BENZO(A)PYRENE						-					

Glenmore Water Resource Recovery Facility VA0086584

Outfall number:	(Complete once for each outfall discharging effluent to waters of the United S								States.)		
POLLUTANT	N	MAXIMU	JM DAIL' HARGE	Υ, ΄ ΄,	A۱	/ERAGE	DAILY	DISCH	ARGE		-
	Conc		Mass		Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE							·		•		
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE										·	
DI-N-OCTYL PHTHALATE	:	İ									
DIBENZO(A,H) ANTHRACENE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE								<u> </u>			
1,4-DICHLOROBENZENE											
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE		!		,							

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY	NAME	AND	PERMIT	NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Outfall number:	_ (Comp	lete onc	e for eac	h outfall					the United S	States.)	
POLLUTANT	1		IM DAIL'	Y	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE					_						
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											_
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE									}		
PYRENE											
1,2,4-TRICHLOROBENZENE											
Use this space (or a separate sheet) to	o provide i	nformatio	n on othe	r base-ne	utral comp	oounds re	quested	by the pe	rmit writer.		
Use this space (or a separate sheet) to	o provide i	nformatio	on othe	r pollutan	ts (e.g., pe	esticides)	requeste	d by the	permit writer.		
										L	1

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER	 R:			Form Approved 1/14/99								
Glenmore Water Resource Recovery	Facility VA0086584			OMB Number 2040-0086								
SUPPLEMENTAL APPLICATION INFORMATION												
PART E. TOXICITY TESTING DATA $\mathcal{N}/\mathcal{E}_{1}$												
PART E. TOXICITY TESTING D												
POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters. • At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. • In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted. • If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information overview for directions on which other sections of the form to complete. E.1. Required Tests. E.2. Individual Test												
column per test (where each species	s constitutes a test). Copy Test number:		n three tests are being repo ber:	orted. Test number:								
a. Test information.												
Test species & test method number												
Age at initiation of test												
Outfall number												
Dates sample collected												
Date test started												
Duration												
b. Give toxicity test methods followed.												
Manual title												
Edition number and year of publication												
Page number(s)												

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

24-Hour composite

Before disinfection

After disinfection

After dechlorination

Grab

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

Form Approved 1/14/99 OMB Number 2040-0086

	Test number:	Test number:	Test number:
e. Describe the point in the treatmer	nt process at which the sample was o	collected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic	toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed	d.		
Static		-	
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artificia	I sea salts or brine used.	
Fresh water			
Salt water			
·	for all concentrations in the test seri	es.	
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)	
pH			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:		· · · · · · · · · · · · · · · · · · ·	
Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBE Glenmore Water Resource Recovery			Form Approved 1/14/99 OMB Number 2040-0086		
Chronic:					
NOEC	%	%	%		
IC ₂₅	%	%	%		
Control percent survival	%	%	%		
Other (describe)					
m. Quality Control/Quality Assurar	ice.				
Is reference toxicant data available?					
Was reference toxicant test within acceptable bounds?					
What date was reference toxicant test run (MM/DD/YYYY)?					
Other (describe)					
E.3. Toxicity Reduction Evaluation. Is YesNo		xicity Reduction Evaluation?			
E.4. Summary of Submitted Blomonito cause of toxicity, within the past fou summary of the results.	ring Test Information. If you have ir and one-half years, provide the dat	submitted biomonitoring test informati es the information was submitted to th	on, or information regarding the e permitting authority and a		
Date submitted:	(MM/DD/YYYY)				
Summary of results: (see instructions)					
REFER TO THE APPLICA	END OF PA		ER PARTS OF FORM		

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Glenmore Water Resource Recovery Facility VA0086584

SUPPLEMENTAL APPLICATION INFORMATION

PAR	T F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES					
All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.						
GEN	ERAL INFORMATION:					
F.1. I	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?					
	Yes_ <mark>✓_</mark> No					
	2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following type of industrial users that discharge to the treatment works.					
	a. Number of non-categorical SIUs. 0					
	b. Number of CIUs. 0					
SIGN	NIFICANT INDUSTRIAL USER INFORMATION:					
Supp	by the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU.					
	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional					
	pages as necessary.					
	Name:					
	Mailing Address:					
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.					
F.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.					
	Principal product(s):					
	Raw material(s):					
F.6.	Flow Rate.					
	Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. gpd (continuous orintermittent)					
	gpd (continuous orintermittent)					
	 Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. 					
	gpd (continuous orintermittent)					
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:					
	a. Local limitsYesNo					
	b. Categorical pretreatment standardsYesNo					
	If subject to categorical pretreatment standards, which category and subcategory?					

FAC	LITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Glen	more Water Resource Recovery Facility VA0086584	OMB Number 2040-0086
F.8.	Problems at the Treatment Works Attributed to Waste Discharged by th upsets, interference) at the treatment works in the past three years?	e SIU. Has the SIU caused or contributed to any problems (e.g.,
	YesNo If yes, describe each episode.	
	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDIC	
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three y pipe? YesNo (go to F.12.)	ears received RCRA hazardous waste by truck, rail, or dedicated
F.10.	Waste Transport. Method by which RCRA waste is received (check all that	apply):
	TruckRailDedicated Pipe	
F.11.	Waste Description. Give EPA hazardous waste number and amount (volui	me or mass, specify units)
	EPA Hazardous Waste Number Amount	<u>Units</u>
		
CER	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORI ION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEV	RECTIVE WATER:
	Remediation Waste. Does the treatment works currently (or has it been no	
	Yes (complete F.13 through F.15.)No	
	Provide a list of sites and the requested information (F.13 - F.15.) for each of	urrent and future site.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA/R	CPA/or other remedial waste originates (or is expected to existence
	in the next five years).	On An other remedial waste originates (or is expected to originate
		
F.14.	Pollutants. List the hazardous constituents that are received (or are expect	ed to be received). Include data on volume and concentration, if
	known. (Attach additional sheets if necessary).	
		
F.15.	Waste Treatment.	
	a. Is this waste treated (or will it be treated) prior to entering the treatment v	vorks?
	YesNo	
	If yes, describe the treatment (provide information about the removal effi-	ciency):
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
	ContinuousIntermittent If intermittent, de	escribe discharge schedule.
	END OF PAR	
RE	FER TO THE APPLICATION OVERVIEW TO DETI	ERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Glenmore Water Resource Recovery Facility VA0086584 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. b. Locations of points where separate sanitary sewers feed into the combined sewer system. c. Locations of in-line and off-line storage structures. d. Locations of flow-regulating devices. e. Locations of pump stations. **CSO OUTFALLS:** Complete questions G.3 through G.6 once for each CSO discharge point. G.3. Description of Outfall. a. Outfall number b Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) c. Distance from shore (if applicable) d. Depth below surface (if applicable) Which of the following were monitored during the last year for this CSO? Rainfall CSO pollutant concentrations CSO frequency CSO flow volume Receiving water quality f. How many storm events were monitored during the last year? G.4. CSO Events.

a. Give the number of CSO events in the last year.

b. Give the average duration per CSO event. hours (_

events (___ actual or ___ approx.)

actual or _

approx.)

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Glenmore Water Resource Recovery Facility VA0086584 c. Give the average volume per CSO event. __ million gallons (____ actual or ____ approx.) d. Give the minimum rainfall that caused a CSO event in the last year. _ inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: _ b. Name of watershed/river/stream system:____ United States Soil Conservation Service 14-digit watershed code (if known): ____ c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water END OF PART G. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

VIRGINIA DEQ NO EXPOSURE CERTIFICATION FOR EXCLUSION FROM VPDES INDUSTRIAL ACTIVITY STORMWATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its stormwater discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

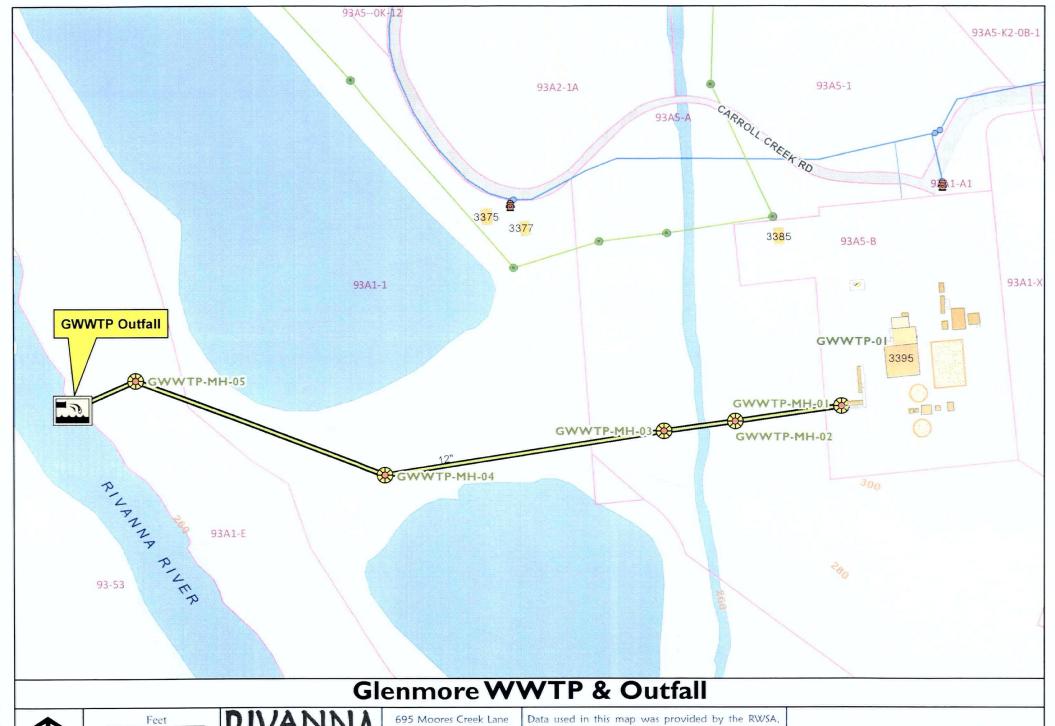
- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- · adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in stormwater discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

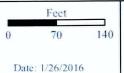
By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at <u>9VAC25-31-120 E</u> (the VPDES Permit Regulation).

Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED. 1. Facility Operator Information Name: Rivanna Water and Sewer Authority Mailing Address: 695 Moores Creek Lane Phone: 434-977-2970 City: Charlottesville State: VA Zip: 22902 2. Facility/Site Location Information Facility Name: Glenmore Water Resource Recovery Facility Address: 3395 Carroll Creek road State: VA Zip: 22902 City: Charlottesville County Name: Albermarle Longitude: W78-22-58 Latitude: N37-58-44 3. Was the facility or site previously covered under a VPDES stormwater permit? Yes No ✓ If "Yes", enter the VPDES permit number: 4. SIC/Activity Codes: Secondary (if applicable): Primary: 4952 5. Total size of facility/site associated with industrial activity: 2.0 acres acres 6. Have you paved or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion? Yes No ✓ If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether stormwater discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage. More than five acres One to five acres Less than one acre

7 .	Ex	posure Checklist		
	Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Pl check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through the control of the sequestion of the sequ			
			Yes	No
	(1)	Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to stormwater		√
	(2)	Materials or residuals on the ground or in stormwater inlets from spill/leaks		✓
	(3)	Materials or products from past industrial activity		\checkmark
	(4)	Material handling equipment (except adequately maintained vehicles)		\checkmark
	(5)	Materials or products during loading/unloading or transporting activities		√
	(6)	Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to stormwater does not result in the discharge of pollutants)		✓
	(7)	Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers		√
	(8)	Materials or products handled/stored on roads or railways owned or maintained by the discharger		\checkmark
	(9)	Waste material (except waste in covered, non-leaking containers [e.g., dumpsters])		\checkmark
	(10)	Application or disposal of process wastewater (unless otherwise permitted)		\checkmark
	(11)	Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater outflow		\checkmark
8.	Ce	rtification Statement		
ex	posu ntam	under penalty of law that I have read and understand the eligibility requirements for claiming re and obtaining an exclusion from VPDES stormwater permitting; and that there are no discharginated by exposure to industrial activities or materials from the industrial facility identified in this wed under		





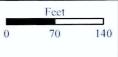




695 Moores Creek Lane Charlottesville, VA 22902 p.434-977-2970 www.rivanna.org www.rivannagis.org Data used in this map was provided by the RWSA, ACSA, City of Charlottesville, UVA FM Dept., and Albermarle Co. GDS. Duplication of data or redistribution of this map without permission from the RWSA Engineering Dept. is prohibited.



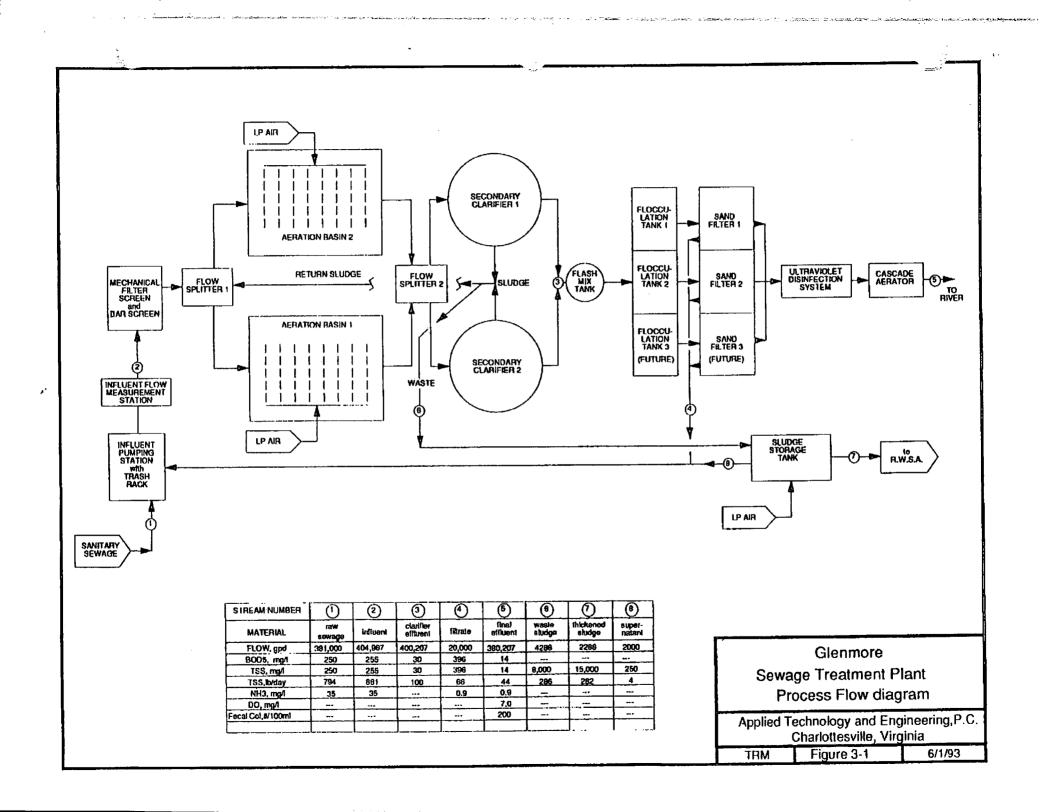




Date: 1/26/2016



695 Moores Creek Lane Charlottesville, VA 22902 p.434-977-2970 www.rivanna.org www.rivannagis.org Data used in this map was provided by the RWSA, ACSA, City of Charlottesville, UVA FM Dept., and Albermarle Co. GDS. Duplication of data or redistribution of this map without permission from the RWSA Engineering Dept. is prohibited.



	VPDES Sewage Sludge Remit Application for Permit Reissuance	尼和工	1 T. J.
Īń	structions		e Til
Pa Pa Pa	HO MUST SUBMIT THE APPLICATION - All facilities with a current VPDES Permit that authorizes the discharge of treat are applying for reissuance must complete and submit this application. It I is general information to be provided by all facilities. It 2 must be completed by all facilities that generate Class A or Class B biosolids that are land applied. It 3 must be completed by all facilities that land apply Class B biosolids.	ed sewage v	waste water
Pa	irtal Sludge Disposal Management (To be completed by all facilities)		海海
Fa	cility Name: Glenmore WRRF VPDES Permit No: VA0086584		
I,	Shipment Off Site for Treatment or Blending		
	Is sewage sludge from your facility sent to another facility that provides treatment or blending?	✓ Yes	□No
	If you send sewage sludge to more than one facility, attach additional sheets as necessary.	_	_
	Shipment off site is: 🗹 The primary method of sludge disposal 🔝 A back up method of sludge disposal		
	a. Receiving Facility Name Moores Creek Advanced Water Resource Recovery Facility		
	b. Receiving Facility VPDES Permit No. VA0025518		
	c. Include an acceptance letter from the Receiving Facility.		
	d. Receiving Facility's ultimate disposal method for sewage sludge Composting with McGill Environmental Sy	/stems	
2.	Disposal in a Municipal Solid Waste Landfill		
	Is sewage sludge from your facility placed in a municipal solid waste landfill?	☐ Yes	⊠ No
	If sewage studge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.		
	Landfilling is: The primary method of sludge disposal A back up method of sludge disposal		
	a. Landfill Name		
	b. Landfill Permit No.		
	c. Include an acceptance letter from the landfill.		
3.	Incineration		,
	Is sewage sludge from your facility fired in a sewage sludge incinerator?	☐ Yes	⊠√N₀
	Incineration is: The primary method of sludge disposal A back up method of sludge disposal		,
	a. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?	🔲 Yes	☑ No
	If yes, provide the Air Registration No.		
	If no, complete items b - d for each incinerator that you do not own or operate. b. Facility Name		
	c. Air Registration No.		
	d. Include an acceptance letter from the Incinerator.		
l.	Class A Dissellide		
•	Do you produce Class A biosolids for land application or distribution and marketing? If yes, complete Part 2.		_/
	Are Class A biosolids from your facility land applied in bulk?	☐ Yes	☑ №
	Do you sell or give away Class A biosolids in a bag or other container for application to the land? If yes, provide the	☐ Yes ☐ Yes	N₀N₀
	VDACS certification number?	☐ 1¢3	□ 140
	Class B Biosolids		
	Do you produce Class B biosolids? If yes, complete Part 2.	☐ Yes	TANO
	Are Class B blosolids from your facility land applied land applied under the authorization of this VPDES Permit? If yes, complete Part 3.	☐ Yes	☑ No ☑ No
	Land Application Under a Separate Permit		
	Are biosolids from your facility land applied under the authorization of a permit other than your VPDES Permit?	☐ Yes	DINO.
	Biosolids are land applied under the authorization of a VPA permit Another VPDES Permit Out of State		
	Complete items a - c for each VPA permit authorized to land apply biosolids from your facility.		
	a. Permittee Name b. Permit No.		
			
	c. Include copy of any information you provide to the Receiving VPDES or VPA Permittee to comply with the "notice as information" requirement of 9VAC25-31-530 F.	nd necessary	

_	VPDES Sewage Sludge Permit Application for Permit Reissuance	
Ps	art 2 – Biosolids Characterization (To be completed by all facilities that generate biosolids that are land applied.)	
1.	Have there been changes to sludge treatment processes or storage facilities since the previous permit issuance/reissuance?	
2.	Do the biosolids generated under this permit that will be land applied meet one of the Class A pathogen requirements in 9VAC25-31-710 A 3 through A 8 or Class B pathogen requirements in 9VAC25-31-710 B 1 through B 4?	
	Identify the pathogen reduction option utilized to demonstrate compliance with the pathogen reductions requirements and provide the data that demonstrate compliance with the applicable alternative.	
3.	Do the biosolids generated under this permit that will be land applied meet one of the vector attraction reduction requirements in 9VAC25-31-720 B 1 through B 10?	
	Identify the vector attraction reduction option utilized to demonstrate compliance with the vector attraction reductions requirements and provide the data that demonstrate compliance with the applicable alternative.	
4.	Do the biosolids to be land applied meet the ceiling/pollutant concentrations in 9VAC25-31-540 B?	
	Has data from the most recent 3 samples for pH (S.U.), Percent Solids (%), Ammonium Nitrogen (mg/kg), Nitrate Nitrogen (mg/kg), Total Kjeldahl Nitrogen (mg/kg), Total Phosphorus (mg/kg), Total Potassium (mg/kg), Alkalinity as CaCO ₃ (mg/kg), Arsenic (mg/kg), Cadmium (mg/kg), Copper (mg/kg), Lead (mg/kg), Mercury (mg/kg), Nickel (mg/kg), Selenium (mg/kg), Zinc (mg/kg) been submitted to DEQ? The samples shall be no more than 4½ years old and each sampling date shall be at least 1 month apart.	
	If no, provide the data with this application.	
Pa	art 3 - Land Application of Class B Biosolids (To be completed by all facilities that land apply Class B biosolids.)	
	Provide to DEQ and to each locality in which biosolids are to be land applied, written evidence of financial responsibility. Evidence of financial responsibility shall be provided in accordance with 9VAC25-31-100 P 9.	
2.	For each site, provide a properly completed landowner agreement for each landowner, using the most current Land Application Agreement - Biosolids Form (VPDES Sewage Sludge Permit Application Form - Attachment to Section C).	
3.	Are any new land application fields proposed at this reissuance?	
ı	If yes, contact the DEQ Regional Office for additional submittal requirements.	
4.	For the currently permitted land application fields, are the previously submitted site booklets, maps and acreage accurate.	
I	If no, contact the DEQ Regional Office for additional submittal requirements.	
5.	Does the facility's Biosolids Management Plan on file with DEQ include the following minimum information?	
I	a. An odor control plan that addresses the abatement of odors resulting from the storage and/or land application of biosolids.	
	b. A description of the transport vehicles to be used.	
i	c. Procedures for biosolids offloading at the land application site including spill prevention, cleanup (including vehicle cleaning), field reclamation, and emergency notification and cleanup measures.	
	 d. A description of the land application equipment including procedures for calibrating equipment to ensure uniform distribution and appropriate loading rates. 	
	e. Procedures used to ensure that land application activities address notification requirements, signage requirements, slope restrictions, operation limitations during periods of inclement weather, soil pH requirements, buffer zone requirements, and site restrictions.	
	f. Any other information necessary to ensure compliance with the requirements of the Biosolids Program of the VPDES Permit Regulation (9VAC25-31-420 through 720).	
Ce	ertification	
de: wh bel	certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system is signed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons to manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and clief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine d imprisonment for knowing violations.	
	Name and Official Title Timothy E. Castillo, Wastewater Manager	
	Signature — — — — — — — — — — — — — — — — — — —	
	Telephone number / Email (434) 977-2970 / tcastillo@rivanna.org	
	Date signed 1/27/16	
(Ba	ased on a review of this information, it may be necessary to submit additional information to meet other legal or technical review requirements.)	

Rev 7/18/2012



695 MOORES CREEK LANE CHARLOTTESVILLE, VA 22902-9016 TEL: 434.977.2970

FAX: 434.293.8858 WWW.RIVANNA.ORG

January 27, 2016

Ms. Megan K. O'Gorek Water Permit Writer DEQ Valley Regional Office PO Box 3000 Harrisonburg, VA 22801

RE:

Glenmore WRRF VA0086584

Sludge Disposal

Dear Ms. O'Gorek:

This correspondence is to serve as acceptance letter from the Moores Creek AWRRF VA0025518 operated by the Rivanna Water and Sewer Authority. The Moores Creek AWRRF will accept all sludge produced at the Glenmore WRRF VA0086584. The liquid sludge is hauled using Rivanna Solid Waste Authority tanker truck approximately 9.5 miles using the following route:

- From Glenmore WRRF follow Carrol Creek Road to Piper Way
- Turn left on Piper Way and follow to Glenmore Way
- Turn left on Glenmore Way and follow to Route 250
- Turn left on Route 250 West and follow to Interstate 64
- Take Interstate 64 west to exit 121 and turn right onto VA Route 20
- From VA 20 turn right onto Quarry Road
- Turn left onto Monticello Road
- Turn right onto Linden Street
- Turn left onto Nassau Street
- Turn right onto Franklin Street
- Turn right onto Moores Creek Lane

The solids received are then blended with Moores Creek solids and anaerobically digested, dewatered and then sent to McGill Environmental Systems in Waverly, VA for manufacture of compost material.

Please do not hesitate to contact me should you need any further information.

Sincerely.

Timothy E. Castillo Wastewater Manager

FACILITY NAME: Glenmore STP

ADDRESS:

3395 Carroll Creck Road

Shadwell, VA

Permit No. VA0086584 Attachment A Page 1 of 1

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY MONITORING

OUTFALL NO. 001

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE [©]	SAMPLE FREQUENCY	
PESTICIDES/PCBS							
333-41-5	333-41-5 Diazinon (3) (4) < 0.100 Jug/ Gor C) 1/5 YR						
	ACID EXTRACTABLES (5)						
104-40-51	Nonytphenol	(3)	(4)	<10.0 mg/2	GodC)	1/5 YR	
Vame of Principal Exec. Officer or Authorized Agent/Title							
1.41.0171111	O O O	2717					

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = An 8-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

- (3) Any approved method presented in 40 CFR Part 136.
- (4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.





1432 Air Rail Avenue, Virginia Booch, VA 23455-3002 • 757.460.4205 • Fox: 757.460.6586 • www.hrsd.com

10/16/15 - Rivanna - GM-FNE

This analytical report contains 5 pages

Stuart Wilson Rivanna Water & Sewer Authority 695 Moore's Creek Lane Charlottsville, VA 22902

swilson@rivanna.org

Date Sent:

11/02/15

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

This report may not be reproduced, except in full, without written approval from HRSD.

If you have any questions concerning this report, please do not hesitate to contact Robin Parnell, CEL Laboratory Manager at (757) 460-4203.

rparnell@hrsd.com

Kim Fordyce, CEL Administrative Assistant at (757) 460-4205. kfordyce@hrsd.com





Job ID: RV-16-OCT-15-969

Report Serial No.: 2015-2343

Sample ID: RV_GM_FNE-C-101615-1

Sample Date: 10/16/2015

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 456310 Sample Sub-Type: SAMP

Analyte Diazinon								Analysis	Analysis
Analyte	Method	CAS#	Unit	Result	Flag	LOQ	Analyst	Date	Time
Diazinon	EPA 622	00333-41-5	ug/l	<0.100		0.100	MBOGGIO	10/27/15	16:14
Ammonia-N, Distilled	Lachat 10-107-06-1-C	8013-59-0	mg/l	<0.20		0.20	DGONZALEZ	10/28/15	11:23
Nitrite/Nitrate - N	Lachat 10-107-04-1-A	10034	mg/l	1.10		0.20	GBROWN	10/20/15	10:20
Nonylphenol	ASTM D7065-06	84852-15-3	ug/l	<10.0		10.0	IGERASIMOV	10/24/15	15:04
Total Dissolved Solids	SM 2540C, 2011		mg/l	266		1.0	MALCORN	10/20/15	15:41
Total Phosphorus	Lachat 10-115-01-1-E	7723-14-0	mg/l	2.35		0.20	CCURRY	10/19/15	16:18
Notes									

LOQ is lowest concentration at which quantitation is demonstrated. *Analyte is not included in the HRSD CEL VELAP scope of accreditation





Job ID: RV-16-OCT-15-969

Report Serial No.: 2015-2343

Sample ID: RV_GM_FNE-G-101615-1

Sample Date: 10/16/2015

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 456311 Sample Sub-Type: SAMP

Notes

								Analysis	Analysis
Analyte	Method	CAS#	Unit	Result	Flag	LOQ	Analyst	Date	Time
HEM (Total Oil and Grease)	EPA 1664B		mg/l	<5.0		5.0	JCOOK	10/19/15	08:23

LOQ is lowest concentration at which quantitation is demonstrated.
*Analyte is not included in the HRSD CEL VELAP scope of accreditation

Authorized By: Robin Parnell - Lab Manager Rolin Parnel D.

Date Authorized: 11/2/2015

Page 2 of 2



CENTRAL ENVIRONMENT LABORATORY 1432 AIR RAIL AVENUE VIRGINIA BEACH, VA 23455 TEL: 757-460-4214 FAX: 767-460-6586

Sample 1D	Container No	Job Name	Oate	Time	Sampler Id	Metrix	Type	Samp Temp oC	Preservation	Status	CNLFIA	GC#22	HARDNE 88	HEM	HG_CV/	ICP_200	ICPM9_2 00_8	NOX	PHN_FI	SEMIVO L D7065		TDS	1P	VO
RV_GM_FNE-C-101615-1	C275918	RV-18-OCT-15-969	10/16/2015	1030	BWECKWOR	_	-	5.3	pH < 2	R	ļ				<u> </u>	-/-^	- W_8		 	x	- W23			+
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	C'275837	RV-16-0CT-15-970	10/16/2015	1250	BWECKWOR	L	G	5.6		R				×	<u> </u>	Ĺ		ļ	<u> </u>	<u> </u>	<u> </u>	L	L.—	4
-	C275938	RV-16-OCT-15-970	10/16/2015	1230	BWECKWOR	Ļ	G	5.9		R							Ĺ	<u> </u>			l		<u> </u>	1
1	C275935	RV-15-0CT-15-970	10/15/2015	1230	BWECKWOR	۲	G	6,8	•	R								l	1		ļ	<u> </u>		\perp
	C275934	RV-18-OCT-15-970	10/18/2015	1230	BWECKWOR		G	5.4		R								1	i]	į		<u> </u>	L
	C275933	RV-16-OCT-15-970	10/16/2015	1230	BWECKWOR	L.	G	5.8		R								1		L	1	<u></u>		I
ľ	C275932	RV-18-OCT-15-970	10/16/2015	1230	BWECKWOR	L	G	4.7		R		1						I			i			
ľ	C275931	RV-16-0CT-15-070	10/16/2015	1230	BWECKWOR	L	G	5.8	. :	R			{								l			\perp
	C275930	RV-16-0CT-15-970	10/16/2015	1230	BWECKWOR	L	G	5.8		R	Γ	i	1			!	l	1	T		!			T
j	C275929	RV-16-OCT-15-970	10/16/2015	1230	BWECKWOR	L	G	6.7	. :	R			·		i			Ī		!			I	T
	C275928	RV-18-0CT-15-070	10/16/2015	1250	BWECKWOR	L	e	5.4		R		1		×		†			1					T
ŀ	C275927	RV-18-OCT-15-070	10/16/2015	1230	BWECKWOR	L	G	2.0	pH > 10	R	×			l —	1	1			1	Ì		I		T
Ì	C275928	RV-16-OCT-15-970	10/16/2015	1245	BWECKWOR	L	G	4.3	pH < 2	R	1			 	†	1			×	Ť		T		T
i	C275026	RV-16-OCT-15-970	10/16/2015	1230	BWECKWOR		-	42		R	1	 		1	1	$\overline{}$		1	1				$\overline{}$	\top

Semple ID Container No

ner No Comment

ACTION

虱

Bruce Weckworth - TSD

DATE/TIME

INITIATED: CUSTODY: RECEIVED:

Edwin Strange - Specialist

10/16/2015 18:03 10/19/2015 9:32

CoC ID: RV_10/16/15 18:15



CENTRAL ENVIRONMENT LABORATORY 1432 AIR RAIL AVENUE VIRGINIA BEACH, VA 23455 TEL: 757-460-4214 FAX: 757-460-6586

CHAIN OF CUSTODY

COC ID:

21863

COC NAME:

RV_10/19/15 09:49

 										$\overline{}$		÷
Sample ID	Container No	Job Name	Date	Time	Sampler Id	Matrix	Туре	Samp Temp of	Preservation:	Status	NH3	
RV_GM_FNE-C-101615-1	C276025	RV-16-OCT-15-969	10/18/2015	1030	BWECKWORT	L,	Ċ	6.0	pH < 2.	R	×	1

Comments:

Sample ID

Container No

Comment

ACTION.

BY

Bruce Weckworth - TSD

DATE/TIME .

INITIATED:

RECEIVED:

Edwin Strange - Specialist

10/19/2015 9:49:21/AM 10/19/2015 10:00:02 AM

FIELD RECORD (S)

Rivanna Grab Field Sheet Glenmore

Information checked before the start of sampling event
1. Were representative conditions verified by plant operator? N 6 (initial) 1a. If "no" does client want to proceed with sampling? Y / N
1b. If the answer to this question is NO, contact project manager immediately 2. Sample event date and time 16/16/15
3. Does RWI have any abnormal characteristics (i.e., odor, color) ? Y / N 3a. If YES contact project manager immediately
4. Sampling personnel <u>Backwooth</u> ,
Information checked at the end of sampling
1. FNE grab end time / date /0/16/15 & 1030 2. FB grab end time / date N/A
Oil & Grease: 10/16/15 @ 1050
Record any other circumstances which could affect the sample integrity: Aserance How has plant = 90,000 gel
Notes





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01/12/16 - Rivanna - Glenmore-FNE

This analytical report contains 4 pages and Field Records.

Stuart Wilson Rivanna Water & Sewer Authority 695 Moore's Creek Lane Charlottesville, VA 22902

swilson@rivanna.org

Date Sent:

01/26/16

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

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If you have any questions concerning this report, please do not hesitate to contact Robin Parnell, CEL Laboratory Manager at (757) 460-4203.

rparnell@hrsd.com

Kim Fordyce, CEL Administrative Assistant at (757) 460-4205.

kfordyce@hrsd.com





Job ID: RV-12-JAN-16-145

Report Serial No.: 2016-142

Sample ID: RV_GM_FNE-C-011216-1

Sample Date: 1/12/2016

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 495659 Sample Sub-Type: SAMP

								Analysis	Analysis
Analyte	Method	CAS#	Unit	Result	Flag	LOQ	Analyst	Date	Time
Ammonia-N, Distilled	Lachat 10-107-06-1-C	8013-59-0	mg/l	<0.20		0.20	KSMITH	01/22/16	08:56
Nitrite/Nitrate - N	Lachat 10-107-04-1-A	10034	mg/l	1.25		0.20	DGONZALEZ	01/14/16	14:05
Total Dissolved Solids	SM 2540C, 2011		mg/l	210		0.0	MALCORN	01/14/16	13:35
TKN	Lachat 10-107-06-2-I	7783-54-2	mg/l	1.70		0.50	KSMITH	01/15/16	12:06
Total Phosphorus	Lachat 10-115-01-1-E	7723-14-0	mg/l	1.77		0.20	CCURRY	01/13/16	12:51
<u>Notes</u>									

LOQ is lowest concentration at which quantitation is demonstrated.
*Analyte is not included in the HRSD CEL VELAP scape of accreditation





Job ID: RV-12-JAN-16-145

Report Serial No.: 2016-142

Sample ID: RV_GM_FNE-G-011216-1

Sample Date: 1/12/2016

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 495660 Sample Sub-Type: SAMP

								Analysis	Analysis
Analyte	Method	CAS#	<u>Unit</u>	Result	Flag	LOQ	Analyst	Date	Time
HEM (Total Oil and Grease)	EPA 1664B		mg/l	<5.0		5.0	JCOOK	01/19/16	09:20

<u>Notes</u>

LOQ is lowest concentration at which quantitation is demonstrated. *Analyte is not included in the HRSD CEL VELAP scope of accept ditation

Authorized By: Li Zhang - Lab Manager

Date Authorized: 1/26/2016

CENTRAL ENVIRONMENT LABORATORY 1432 AIR RAIL AVENUE VIRGINIA BEACH, VA 23455 TEL: 757-460-4214 FAX: 757-460-6586

CHAIN OF CUSTODY

COC ID:

23460

COC NAME:

RV_01/12/16 15:07

Sample ID	Container No	Job Name	Date	Time	Sampler Id	Matrix	Type	Samp Temp oC	Preservation	Status	HEM	NH3	NOX	TDS	TKN	TP
RV_GM_FNE-C-011216-1	C293045	RV-12-JAN-16-145	01/12/2016	1030	JJACKSON	L	С	3.3	pH < 2	R		×				
	C293044	RV-12-JAN-16-145	01/12/2016	1030	JJACKSON	L	С	3.5	•	R				х		Ī
	C293043	RV-12-JAN-16-145	01/12/2016	1030	JJACKSON	L	С	3.0	pH < 2	R			x		×	Х
RV_GM_FNE-G-011218-1	C293049	RV-12-JAN-16-145	01/12/2016	1045	JJACKSON	L	G	2.6		R	х					
	C293048	RV-12-JAN-16-145	01/12/2016	1045	JJACKSON	L	G	2.8	•	R	х					1
-	C293047	RV-12-JAN-16-145	01/12/2016	1045	JJACKSON	L	G	2.6		R	х	·				
-	C293046	RV-12-JAN-16-145	01/12/2016	1045	JJACKSON	L	G	.2.2		R	x					i

Comments:

Sample ID

Container No

Comment

ACTION

BY

James Jackson - TSD WQ Technician

DATE/TIME

1/12/2016 3:04:17 PM

INITIATED: CUSTODY:

RECEIVED:

Jeremy Spruill- Lab Tech

1/12/2016 3:14:57 PM

FIELD RECORD (S)

Rivanna Grab Fredi Sheet Glenmore

Information checked before the start of sampling event
1. Were representative conditions verified by plant operator? N(initial)
1a. If "no" does client want to proceed with sampling? Y / N
1b. If the answer to this question is NO, contact project manager immediately
2. Sample event date and time 1/12/16 \0:30
3. Does RWI have any abnormal characteristics (i.e., odor, color) ? Y /(N)
3a. If YES contact project manager immediately
4. Sampling personnel: J. Jackson,
Information checked at the end of sampling
. FNE grab end time / date 1/12/16 @ 10:45
N . A
. FB grab end time / date
Oil & Grease: 1/12/16 @ 10:45
On & Grease 11 10 10 11
Record any other circumstances which could affect the sample integrity:
resolut any suist an eamstances water toute allest the sample integrity.

NOTES:
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11/20/15 - Rivanna - Glenmore -FNE

This analytical report contains 4 pages

Stuart Wilson Rivanna Water & Sewer Authority 695 Moore's Creek Lane Charlottesville, VA 22902

swilson@rivanna.org

Date Sent: 11/30/15

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

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rparnell@hrsd.com

Kim Fordyce, CEL Administrative Assistant at (757) 460-4205. kfordyce@hrsd.com





Job ID: RV-20-NOV-15-047

Report Serial No.: 2015-2534

Sample ID: RV_GM_FNE-C-112015-1

Sample Date: 11/20/2015

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 473189 Sample Sub-Type: SAMP

								Analysis	Analysis
Analyte	Method	CAS#	Unit	Result	Flag	LOQ	Analyst	Date	Time
Ammonia-N, Distilled	Lachat 10-107-06-1-C	8013-59-0	mg/l	<0.20		0.20	DGONZALEZ	11/25/15	08:17
Nitrite/Nitrate - N	Lachat 10-107-04-1-A	10034	mg/l	2.54		0.20	DGONZALEZ	11/24/15	11:56
Total Dissolved Solids	SM 2540C, 2011		mg/l	245		0.0	MALCORN	11/23/15	11:38
TKN	Lachat 10-107-06-2-I	7783-54-2	mg/l	1.27		0.50	VFLAGG	11/25/15	11:15
Total Phosphorus	Lachat 10-115-01-1-E	7723-14-0	mg/l	2.84		0.20	CCURRY	11/23/15	12:53
Notes									

LOQ is lowest concentration at which quantitation is demonstrated.
*Analyte is not included in the HRSD CEL VELAP scape of accreditation





Job ID: RV-20-NOV-15-047 Report Serial No.: 2015-2534

Sample ID: RV_GM_FNE-G-112015-1

Sample Date: 11/20/2015

Customer Sample ID: Rivanna Water and Sewer Authority - Glenmore WWTP - FNE

Sample ID: 473190 Sample Sub-Type: SAMP

								Analysis	Analysis
Analyte	Method	CAS#	Unit	Result	Flag	LOQ	Analyst	Date	Time
HEM (Total Oil and Grease)	EPA 1664B		mg/l	<5.0		5.0	ANROBERTS	11/24/15	08:10

Notes

LOQ is lowest concentration at which quantitation is demonstrated.
*Analyte is not included in the HRSD CEL VELAP scape of accreditation

Authorized By: Li Zhang - Lab Manager

Date Authorized: 11/30/2015

Page 2 of 2



CENTRAL ENVIRONMENT LABORATORY 1432 AIR RAIL AVENUE VIRGINIA BEACH, VA 23455 TEL: 157-460-4214 FAX: 757-460-6586

CHAIN OF CUSTODY

Sampte ID	Container No	Job Name	Date	Time	Sampler (d	Matrix	Type	Samp Temp oC	Preservation	l Status	CN_FIA	HARDNE SS	HEM	HG_CVA	ICP_200 _7_A	ICPMS_2 00_8	ени	NOX	PHNL_FI	SEMIVO L625	TDS	TKN	TP	Voces
RV_GM_FNE-C-112015-1	C283404	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	L	С	1.9	ρH < 2	· R	1			†	 -		x	i	 					+
<u>+-</u>	C283403	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	Ĺ	C	2.2		R				<u> </u>					1		x			+
-	C283402	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	L	¢	1.8	pH < 2	R								х	<u> </u>			×	×	
RV_GM_FNE-G-112013-1	C283408	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	L	G	4,1		R			×		-				!	1				+
_	C283407	RV-20-NOV-15-047	11/23/2015	1315	BWECKWORT	L	G	2.0		R	<u> </u>		×	 						1				-
<u> </u>	C283406	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	L	G	3.9		R			×	i	i				1	i				†
	C283405	RV-20-NOV-15-047	11/20/2015	1315	BWECKWORT	L	G	3.4		R	 		×	-	1		-			i				T
RV_MC_F8-C-112015-1	C283397	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	С	•		R	-			X		×		i	i -				_	
-	C283396	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	Ļ	C			R	!			`	 	x			i					1
RV_MC_FNE-C-112015-1	C283427	RV-20-NOV-15-048	11/20/2015	1150	BWECKWORT	L	¢	2.7		R				 					 	×				1
	C283428	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	С	3.4	-	R	1									х				4
_	C283425	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	Ċ	2.5		R	i				1					х		,		
	C283424	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	Ŀ	c	2.2		R	i			†						×				1
	C283423	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT		С	2.1		R									1	× .				1
	C283422	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT		С	2.1		R				 					į .	×				1
	C283421	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	С	3.4	-	R									i	×				T
	C283420	RV-20-NOV-15-048	11/20/2015	1150	BWECKWORT	L	С	4.0	,	R				Ţ					1	x				1
Γ	C283395	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	c	2.9		R				,			_				×			
:	C283394	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT		С	3.3		R					1			:		х				_
Γ	C283393	RV-20-NOV-15-048	11/20/2015	1150	BWECKWORT	L	Ċ	•	•	Ř				X		х		1	i	1				1
Γ	C283392	RV-20-NOV-15-046	11/20/2015	1150	BWECKWORT	L	С			R		×			×	х								
RY_MC_FNE-G-112015-1	C283419	RV-20-NOV-15-046	11/20/2015	1100	BWECKWORT	L	G	4,1		R			×					· · · ·						
,	C283418	RV-20-NOV-15-048	11/20/2015	1100	BWECKWORT	L	G	3.7		R			×											Ï
	C283417	RV-20-NOV-15-048	11/20/2015	1100	SWECKWORT		G	4.1		R	1		х						1		-			
Γ	C283416	RV-20-NOV-15-048	11/20/2015	1100	BWECKWORT	L	G	2.6		, R								i						x
	C283415	RV-20-NOV-15-046	11/20/2016	1100	BWECKWORT	۱ ا	G	2.2		R												-		×
	C283414	RV-20-NOV-15-046	11/20/2016	1100	BWECKWORT	L	G	4.3		R									Ţ					x
	C283413	RV-20-NOV-15-048	11/20/2015	1100	BWECKWORT!	L	G	2.5		R														х
	C283412	RV-20-NOV-18-046	11/20/2015	1100	EWECKWORT	L	G	3.7		R														х
	C283411	RV-20-NOV-15-045	11/20/2015	1100	SWECKWORT	L	G	2.0		R				i				_			-			×
-	C263410	RV-20-NOV-15-049	11/20/2015	1100	BWECKWORT	L	G	3.6		R						i		İ	1		-			x
	C283409	RV-20-NOV-15-046	11/20/2015	1100	BWECKWORT	L	G	2.4		R				T					1					×
	C283401	RV-20-NOV-15-046	11/20/2015	1100	SWECKWORT	L	G	3.8	· ·	R			X	i										1
-	C283400	RV-20-NOV-15-046	11/20/2015	1100	BWECKWORT	L	G	2.2	pH > 10	R	×			1		;			1			<u> </u>		1
-	C283399	RV-20-NOV-15-048	11/20/2019	1100	BWECKWORT		G	2.8	pH < 2	R	,					i		i	×	!				
F	C283398	RV-20-NOV-15-048	11/20/2015	1190	BWECKWORT	L	G	24		Ř				1						-			-	×

Sample ID

ACTION INITIATED: **PATE/TIME**

CUSTODY:

Bruce Weckworth - TSD

11/20/2015 17:38

RECEIVED: Jeremy Spruill- Lab Tech 11/21/2015 7:05

CoC ID: _11/20/15 17:38

FIELD RECORD (S)

Rivanna Crab Rield Sheet Glenmore

#